

RECEIVED
CENTRAL FAX CENTER

FEB 11 2009

JPD19

L6 ANSWER 1 OF 5 JAPIO (C) 2008 JPO on STN
AN 1999-026013 JAPIO Full-text
TI SEALED METAL OXIDE-ZINC STORAGE BATTERY AND ITS MANUFACTURE
IN KAWANO HIROSHI; MIURA AKIRA; MATSUMOTO ISAO
PA MATSUSHITA ELECTRIC IND CO LTD
PI JP 11026013 A 19990129 Heisei
AI JP 1997-179370 (JP09179370 Heisei) 19970704
PRAI JP 1997-179370 19970704
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Volume 1999
AN 1999-026013 JAPIO Full-text
AB PROBLEM TO BE SOLVED: To provide a storage battery with improved negative electrode reaction characteristic, suppressed dendrite, and superior in preservation characteristic by forming the electrode base of a negative electrode with a three-dimensional mesh metal porous body made of one from among silver, copper, tin, brass and bronze, forming the inner face of a battery case with the same material as the electrode base, and arranging the negative electrode in direct contact with the battery case. SOLUTION: An electrode base constituting a zinc electrode is manufactured as follows. A paste mixed with conductive carbon powder and water is filled into a foam urethane resin so as to impart conductivity to the surface of the resin. A metal plated layer is formed on the surface with a plating liquid of silver, copper, tin or the like. It is heated in air to burn foam urethane and carbon, and a metal porous body is formed. Since a part of the metal is oxidized in this process, a strong metal porous body is obtained after being sintered in the reducing atmosphere. COPYRIGHT: (C) 1999, JPO